

PATENT APPLICATION OF:

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For

TITLE: EXPRESSWAY SAFETY MIRROR

CROSS REFERENCE TO RELATED APPLICATION

[0001] Not applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH

[0002]Not applicable

REFERENCE TO MICROFICHE APPENDIX

[0003] Not applicable

BACKGROUND OF THE INVENTION

[0004] This invention is in response to the continued frequency of automobile accidents on the interstate highways due to drivers in the right lane pulling into the left lane to pass the automobile in front of them, therefore causing an accident because they pulled into the path of an automobile in the right lane that was overtaking them. The driver's side rear view mirrors presently available don't display the speed or number of seconds the automobile approaching from the rear in the left lane is traveling or will overtake said automobile. The driver's side rear view mirrors presently available don't have a blinking red light to warn the driver and alert him/her of the approaching automobile from rear left lane.

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BRIEF SUMMARY OF THE INVENTION

[0005] This invention is a driver's side rear view mirror that attaches to an automobile and gives the driver a view of the automobiles approaching from the rear left hand lane on an interstate highway. The mirror is equipped with a radar beam or laser beam that will give the driver a digital readout of the speed of the automobile approaching from the rear and the number of seconds until he/she is overtaken. When the automobile approaching from the rear is 5 seconds away from overtaking, a red light on the mirror starts to flash, indicating that it is too dangerous to pull into the left lane. This will alert the driver to the possibility of a crash. If the driver has not been paying attention to the automobile approaching from the rear, when the red light starts to blink, he/she can compare the speed of the automobile approaching from the rear and his/her speed. This will alert them to the difference in the speed of the two vehicles and prevent them from pulling out in front of the approaching automobile thereby preventing an accident.

BRIEF DESCRIPTION OF THE DRAWINGS

[0006] I, John C . Cavin, have created a new automobile driver's side rear view mirror

as shown in the accompanying drawings, in which:

[0007] Fig. 1 shows the front face of the mirror, which shows the radar or laser box on the outside left side of the mirror. This is where the radar or laser sending unit and receiving unit is housed, with the Global Positioning Satellite receiver on top of the unit. Fig.1. also shows the digital window for approaching automobile's speed, the digital window that displays the number of seconds that the automobile approaching from rear will overtake, and the red and green lights.

[0008] FIG. 2. is a perspective, right side view of the mirror, which shows the mirror's attachment that will attach the mirror to the automobile.

[0009] FIG.3. is a perspective, left side view of the mirror , which shows the side the

radar or laser housing is on and the Global Positioning Satellite receiver on top of the

housing.

[0010] FIG.4. is a rear view of the mirror, which shows the attachment that will

attach the mirror to the automobile and the radar or laser housing box with the

Global Positioning Satellite receiver on top of the housing..

DETAILED DESCRIPTION OF THE INVENTION

[0011] This invention combines a radar beam or laser beam with an automobile

outside rear view mirror on the driver's side to become a new visual recording

device. The radar beam or laser beam is aimed to the rear of the automobile

from the mirror. If the automobile is in the right lane of an interstate highway or

expressway, the beam is directed to the left lane behind the automobile. The

beam hits an automobile in the left lane and bounces back to the mirror where

a receiver picks up the beam. The receiver then translates the speed of the

automobile approaching from rear to a digital readout gauge on the outside

face of the mirror. The receiver also translates how many seconds before the

automobile approaching from the rear overtakes the automobile with the

Expressway Safety Mirror.The number of seconds is also flashed on a digital

readout gauge on the outside face of the mirror.The driver of the automobile with

the Expressway Safety Mirror knows he/she has an automobile approaching from the rear in the left lane that is running 76 M.P.H. and will pass him in 5 seconds as shown in FIG.1 in the drawings. At this point a red light will flash on a digital gauge on the face of the mirror which lets the driver know that the automobile approaching from the rear is in a danger zone and too close for him/her to change lanes. If the seconds is more than 10, the mirror would flash a green light which would let the driver know the automobile approaching from the rear is in the safety zone and he/she can pass or change lanes safely.

[0012] The Expressway Safety Mirror has a on off switch which enables the driver to control when he/she wants the information. When the driver is not on the interstate or expressway he/she can turn the Expressway Safety Mirror off and it works just as a rear view mirror. The power source to operate the radar or laser beam, receiver, G.P.S., digital gauges and lights will be the battery of the automobile to which the Expressway Safety Mirror is attached. A Global Positioning Satellite receiver on the Expressway Safety Mirror is constantly communicating with the ring of satellites located above the earth's atmosphere. This gives the Expressway Safety Mirror vital information about its location, speed and direction on the earth's surface. This information is fed to the radar or laser receiver to locate the beam in relation to the automobile approaching from the rear. Either a radar beam or a laser beam could be used to operate the Expressway Safety Mirror successfully. That choice would be made at the time of manufacture based on economics.